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- **Muninder, Veldandi**  
**560037 Bangalore (IN)**
- **Govindarao, Krishna Annasagar**  
**560050 Bangalore (IN)**
- **Kumar, Vishal**  
**560047 Bangalore (IN)**

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(74) Representative: **Nokia Corporation**  
**Intellectual Property Department**  
**Karakaari 7**  
**02610 Espoo (FI)**

(71) Applicant: **Nokia Technologies Oy**  
**02610 Espoo (FI)**

(72) Inventors:

- **Ukil, Soumik**  
**560103 Bangalore (IN)**

(54) **Method, apparatus and computer program product for disparity estimation**

(57) In an example embodiment, a method, apparatus and computer program product are provided. The method includes facilitating access of a first image and a second image associated with a scene. The first image and the second image includes depth information and at least one non-redundant portion. A first disparity map of the first image is computed based on the depth information associated with the first image. At least one region

of interest (ROI) associated with the at least one non-redundant portion is determined in the first image based on the depth information associated with the first image. A second disparity map of at least one region in the second image corresponding to the at least one ROI of the first image is computed. The first disparity map and the second disparity map are merged to estimate an optimized depth map of the scene.

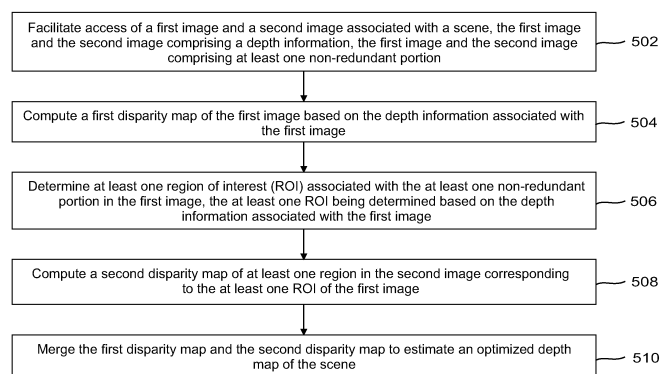


FIGURE 5

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## EUROPEAN SEARCH REPORT

Application Number  
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A	----- MIKULASTIK PATRICK: "Verbesserung der Genauigkeit der Selbstkalibrierung einer Stereokamera mit 3D-CAD-Modellen", UNIVERSITÄT-DISSERTATION, VDI, HANNOVER, 7 November 2008 (2008-11-07), pages I-X, XP002635672, * sections 2.1, 2.2 and 3.1 * -----	4-9	TECHNICAL FIELDS SEARCHED (IPC) H04N
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 9 July 2015	Examiner Mikulastik, Patrick
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document	

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ANNEX TO THE EUROPEAN SEARCH REPORT  
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
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09-07-2015

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82